

INTERNATIONAL SEARCH REPORT

Internat Application No
PCT/EP2004/013693

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/46 C07K7/08 A61K38/10 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, BIOSIS, MEDLINE, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	MARENAH L ET AL: "Isolation and characterisation of an unexpected class of insulintropic peptides in the skin of the frog <i>Agalychnis litodryas</i> " REGULATORY PEPTIDES, vol. 120, no. 1-3, 15 August 2004 (2004-08-15), pages 33-38, XP002319554 ISSN: 0167-0115 page 35, right-hand column, paragraph 1 - page 37, left-hand column, paragraph 1 ----- -/--	1-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 March 2005

Date of mailing of the international search report

13. 07. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE Geneseq [Online] 18 June 1997 (1997-06-18), "Leukocyte 02-production inhibitor peptide PR14." XP002319557 retrieved from EBI accession no. GSP:AAW01450 Database accession no. AAW01450 abstract -& WO 96/32129 A (KANSAS STATE UNIVERSITY RESEARCH FOUNDATION; BLECHA, FRANK; SHI, JISHU) 17 October 1996 (1996-10-17) page 3, paragraph 2</p>	7-9
X	<p>----- DATABASE UniProt [Online] 16 October 2001 (2001-10-16), "Dermaseptin BIV precursor (Dermaseptin B4). 46 73 Dermaseptin BIV." XP002319558 retrieved from EBI accession no. UNIPROT:P81486 Database accession no. P81486 abstract -& CHARPENTIER STEPHANE ET AL: "Structure, synthesis, and molecular cloning of dermaseptins B, a family of skin peptide antibiotics" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 273, no. 24, 12 June 1998 (1998-06-12), pages 14690-14697, XP002142518 ISSN: 0021-9258</p>	7-9
A	<p>----- ABDEL-WAHAB Y H A ET AL: "Isolation and structural characterisation of insulintropic peptides from Bombina variegata" DIABETOLOGIA, vol. 44, no. Supplement 1, August 2001 (2001-08), page A 135, XP009044612 & 37TH ANNUAL MEETING OF THE EUROPEAN ASSOCIATION FOR THE STUDY OF DIABETES; GLASGOW, SCOTLAND, UK; SEPTEMBER 09-13, 2001 ISSN: 0012-186X abstract</p> <p>----- -/--</p>	1-9

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ABDEL-WAHAB Y H A ET AL: "Isolation and structural characterisation of novel insulintropic peptides from the skin secretion of Rana pipiens"</p> <p>DIABETOLOGIA, vol. 45, no. Supplement 2, August 2002 (2002-08), page A 178, XP009044598</p> <p>& 38TH ANNUAL MEETING OF THE EUROPEAN ASSOCIATION FOR THE STUDY OF DIABETES (EASD); BUDAPEST, HUNGARY; SEPTEMBER 01-05, 2002 ISSN: 0012-186X abstract</p> <p>-----</p>	1-9

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INTERNATIONAL SEARCH REPORT

Int

tional application No.
PCT/EP2004/013693**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-9 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1, claims 1-9 (partially)

Insulinotropic peptides isolated from the skin secretions of the frog *Agalychnis* and defined by SEQ ID Nos: 1-3; modified forms of said peptides; the use of said peptides in the preparation of a medicament; and, pharmaceutical compositions comprising said peptides.

Invention 2, claim 1-9 (all partially)

Insulinotropic peptides isolated from the skin secretions of the frog *Bombina* and defined by SEQ ID Nos: 4 and 5; modified forms of said peptides; the use of said peptides in the preparation of medicaments; and, pharmaceutical ~~compositions comprising said peptides.~~

Invention 3, claims 1-9 (all partially)

Idem as invention 2 but where the peptide is defined by SEQ ID NO: 6.

Invention 4, claims 1-9 (all partially)

Idem as invention 2 but where the peptide is defined by SEQ ID NO: 7.

Invention 5, claims 1-9 (all partially)

Idem as invention 1 but where the peptides are isolated from the frog *Phyllomedusa* and defined by SEQ ID Nos: 8 and 9.

Invention 6, claims 1-9 (partially)

An insulinotropic peptide isolated from the skin secretions of the frog *Rana* and defined by SEQ ID No: 10; modified forms of said peptide; the use of said peptide in the preparation of a medicament; and, pharmaceutical compositions comprising said peptide.

Invention 7, claims 1-9 (all partially)

Idem as invention 6 but where the peptides are defined by SEQ ID Nos: 11 and 17.

Invention 8, claims 1-9 (all partially)

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Idem as invention 6 but where the peptides are defined by
SEQ ID Nos: 12, 15 and 16.

Invention 9, claims 1-9 (all partially)

Idem as invention 6 but where the peptides are defined by
SEQ ID Nos: 13 and 14.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9632129	A	17-10-1996	US 5830993 A	03-11-1998
			AU 5534596 A	30-10-1996
			US 2003125249 A1	03-07-2003
			WO 9632129 A1	17-10-1996
			US 2004043934 A1	04-03-2004

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